

Claims

1. Hydrostatic drive system having at least one hydraulic
pump (100) and at least two hydraulic motors (104,
5 109), wherein the hydraulic pump (100) divides up its
overall flow of hydraulic fluid over at least two
partial flows of hydraulic fluid which are each
delivered in a partial delivery line (101, 102) in a
common cylinder drum (23) belonging to the hydraulic
10 pump (100), and wherein at least one first hydraulic
motor (104) driving a first drive line (105) is
connected by its first connection (103) to the first
connection (38) of the first partial delivery
line (101) of the hydraulic pump (100), and by its
15 second connection (107) to the second connection (38')
of the first delivery line (101) of the hydraulic
pump (100), and at least one second hydraulic
motor (109) driving a second drive line (110) is
connected by its first connection (108) to the first
20 connection (56) of the second partial delivery
line (102) of the hydraulic pump (100), and by its
second connection (112) to the second connection (56')
of the second partial delivery line (102) of the
hydraulic pump (100).
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2. Hydrostatic drive system according to claim 1,
characterised in that,
if necessary, an equalising flow for equalising a
differential takes place, in each case, between the
30 two partial flows of hydraulic fluid in the two
particular working conduits (52 and 54, 53 and 55)
which are connected, in each case, to the two first or

second connections (38 and 56, 38' and 56') of the hydraulic pump (100).

3. Hydrostatic drive system according to claim 2,
5 characterised in that
the equalising flow between the two partial flows of hydraulic fluid is realised, in each case, via a 2/2-way valve (123, 124) which is connected between the two working conduits (52 and 54, 53 and 55) and which
10 is closed if necessary.
4. Hydrostatic drive system according to claim 3,
characterised in that
one of the two 2/2-way valves (123, 124) is integrated
15 into the hydraulic pump (100) on the feeding-in and feeding-out sides in each case.
5. Hydrostatic drive system according to one of claims 1 to 4,
20 characterised in that
the hydraulic pump (100) is designed as an adjusting pump.
6. Hydrostatic drive system according to one of claims 1 to 5,
25 characterised in that
each hydraulic motor (104, 109) is designed as a fixed-displacement motor, a torque motor and/or an adjusting motor.